Please provide the following information, and submit to the NOAA DM Plan Repository.

Reference to Master DM Plan (if applicable)

As stated in Section IV, Requirement 1.3, DM Plans may be hierarchical. If this DM Plan inherits provisions from a higher-level DM Plan already submitted to the Repository, then this more-specific Plan only needs to provide information that differs from what was provided in the Master DM Plan.

URL of higher-level DM Plan (if any) as submitted to DM Plan Repository:

1. General Description of Data to be Managed

1.1. Name of the Data, data collection Project, or data-producing Program:
2004 Alaska Lidar Mapping

1.2. Summary description of the data:
The data sets are generated using the OPTECH ALTM 70 kHz LIDAR system mounted onboard AeroMap's twin-engine

Cessna 320 aircraft. Classified data sets such as this one may have varying posting due to some LIDAR pulses not

reaching the ground caused by data anomalies. Accuracy statements are based on areas of moderate terrain. Diminished

accuracies are to be expected in areas of extreme terrain and dense vegetation. The accuracy of each point is expected

to meet the vertical accuracy standard; however, derived products may be less accurate in extreme terrain and dense

vegetation due to a lesser number of points defining the bare-earth in these areas. The data were QA/QC'ed but some

data holidays still exist. This data represents the last return data only.

Original contact information:

  Contact Org: NOAA Office for Coastal Management

  Phone: 843-740-1202

  Email: coastal.info@noaa.gov

1.3. Is this a one-time data collection, or an ongoing series of measurements?
One-time data collection

1.4. Actual or planned temporal coverage of the data:
2004-07-21, 2004-07-22, 2004-08-01, 2004-08-05, 2004-08-06, 2004-08-11

    1.5. Actual or planned geographic coverage of the data:

      W: -168.530215, E: -162.633189, N: 68.35997, S: 65.594656

    1.6. Type(s) of data:

      (e.g., digital numeric data, imagery, photographs, video, audio, database, tabular data, etc.)

    1.7. Data collection method(s):

      (e.g., satellite, airplane, unmanned aerial system, radar, weather station, moored buoy, research vessel, autonomous underwater vehicle, animal tagging, manual surveys, enforcement activities, numerical model, etc.)

    1.8. If data are from a NOAA Observing System of Record, indicate name of system:

      1.8.1. If data are from another observing system, please specify:

2. Point of Contact for this Data Management Plan (author or maintainer)

    2.1. Name:

      NOAA Office for Coastal Management (NOAA/OCM)

    2.2. Title:

      Metadata Contact

    2.3. Affiliation or facility:

      NOAA Office for Coastal Management (NOAA/OCM)

    2.4. E-mail address:

      coastal.info@noaa.gov

    2.5. Phone number:

      (843) 740-1202

3. Responsible Party for Data Management

Program Managers, or their designee, shall be responsible for assuring the proper management of the data produced by their Program. Please indicate the responsible party below.

    3.1. Name:

    3.2. Title:

      Data Steward

4. Resources

Programs must identify resources within their own budget for managing the data they produce.

    4.1. Have resources for management of these data been identified?

4.2. Approximate percentage of the budget for these data devoted to data management (specify percentage or "unknown"):

5. Data Lineage and Quality

NOAA has issued Information Quality Guidelines for ensuring and maximizing the quality, objectivity, utility, and integrity of information which it disseminates.

5.1. Processing workflow of the data from collection or acquisition to making it publicly accessible
(describe or provide URL of description):

Process Steps:

- 2006-03-24 00:00:00 - The raw points for the point cloud data product were captured using AeroMap U.S.'s twin-engine Cessna equipped with our OPTECH ALTM 70 kHz LIDAR data acquisition system. The system includes differential GPS and inertial measurement systems to provide superior accuracy. The flying height is 1200 & 2000 meters Above Mean Terrain (AMT). These data were post-processed utilizing Optech's REALM (Version 3.5.4) software, which applies AeroMap U.S.'s Applanix Inertial Measurement Unit (IMU) values to the acquired Airborne Global Positioning Systems (ABGPS) data. These results are then applied to the acquired LIDAR data points and output to a LIDAR accuracy standard (LAS) format in a WGS 84, Universal Transverse Mercator (UTM), Zone 3, Meters coordinate system. Using Bentley's Microstation V8 LIDAR these data were imported in LAS format. Using TerraSolid's TerraScan (version 6.04) software, these data were imported into a TerraScan project files (PRJ) and converted (on import) to a binary files, no data were classified, all original "point cloud" data as output from REALM. These data were then output to the deliverable ASCII, space delimited, CTIXYZ format, (see attribute section for explanation of ASCII file syntax).
- 2006-03-24 00:00:00 - Created initial metadata (Citation: Lidar point cloud)
- 2007-02-09 00:00:00 - The NOAA Office for Coastal Management (OCM) received files in LAS format. The files contained lidar intensity and elevation measurements. OCM performed the following processing on the data to make it available within the Lidar Data Retrieval Tool (LDART): 1. All data points in the ASCII files were projected geographic decimals degrees using the USGS General Cartographic Transformation Package (GCTP) software. 2. All ASCII files containing points collected on the same date were combined into a single file and sorted by latitude. 3. The sorted files were then converted to binary LAS files and the las header fields were updated. 4. Data was QA/QC'ed and many points removed - there still remains several 'data holidays' as unique outliers in otherwise ordered areas. They can be manually edited by user if required. This data represents the last return data only. (Citation: Lidar point cloud)

5.1.1. If data at different stages of the workflow, or products derived from these

data, are subject to a separate data management plan, provide reference to other plan:

5.2. Quality control procedures employed (describe or provide URL of description):

6. Data Documentation
The EDMC Data Documentation Procedural Directive requires that NOAA data be well documented, specifies the use of ISO 19115 and related standards for documentation of new data, and provides links to resources and tools for metadata creation and validation.

6.1. Does metadata comply with EDMC Data Documentation directive?
No

6.1.1. If metadata are non-existent or non-compliant, please explain:
Missing/invalid information:
- 1.6. Type(s) of data
- 1.7. Data collection method(s)
- 3.1. Responsible Party for Data Management
- 4.1. Have resources for management of these data been identified?
- 4.2. Approximate percentage of the budget for these data devoted to data management
- 5.2. Quality control procedures employed
- 7.1. Do these data comply with the Data Access directive?
- 7.1.1. If data are not available or has limitations, has a Waiver been filed?
- 7.1.2. If there are limitations to data access, describe how data are protected
- 7.4. Approximate delay between data collection and dissemination
- 8.1. Actual or planned long-term data archive location
- 8.3. Approximate delay between data collection and submission to an archive facility
- 8.4. How will the data be protected from accidental or malicious modification or deletion prior to receipt by the archive?

6.2. Name of organization or facility providing metadata hosting:
NMFS Office of Science and Technology

6.2.1. If service is needed for metadata hosting, please indicate:

6.3. URL of metadata folder or data catalog, if known:
https://www.fisheries.noaa.gov/inport/item/48143

6.4. Process for producing and maintaining metadata
(describe or provide URL of description):
Metadata produced and maintained in accordance with the NOAA Data Documentation Procedural Directive: https://nosc.noaa.gov/EDMC/DAARWG/docs/EDMC_PD-Data_Documentation_v1.pdf

7. Data Access
NAO 212-15 states that access to environmental data may only be restricted when distribution is explicitly limited by law, regulation, policy (such as those applicable to personally identifiable information or protected critical infrastructure information or proprietary trade information) or by security requirements. The EDMC Data Access Procedural Directive contains specific guidance, recommends the use of open-standard, interoperable, non-proprietary web services, provides information about resources and tools to enable data access, and includes a Waiver to be submitted to justify any approach other than full, unrestricted public access.

7.1. Do these data comply with the Data Access directive?

7.1.1. If the data are not to be made available to the public at all, or with limitations, has a Waiver (Appendix A of Data Access directive) been filed?

7.1.2. If there are limitations to public data access, describe how data are protected from unauthorized access or disclosure:

7.2. Name of organization of facility providing data access:
Office for Coastal Management (OCM)

7.2.1. If data hosting service is needed, please indicate:

7.2.2. URL of data access service, if known:
https://coast.noaa.gov/htdata/lidar1_z/geoid12a/data/23
https://coast.noaa.gov/dataviewer/#/lidar/search/where:ID=23

7.3. Data access methods or services offered:
This data can be obtained on-line at the following URL: https://coast.noaa.gov/dataviewer

The data set is dynamically generated based on user-specified parameters.

;

7.4. Approximate delay between data collection and dissemination:

7.4.1. If delay is longer than latency of automated processing, indicate under what authority data access is delayed:

8. Data Preservation and Protection
The NOAA Procedure for Scientific Records Appraisal and Archive Approval describes how to identify, appraise and decide what scientific records are to be preserved in a NOAA archive.

8.1. Actual or planned long-term data archive location:

(Specify NCEI-MD, NCEI-CO, NCEI-NC, NCEI-MS, World Data Center (WDC) facility, Other, To Be Determined, Unable to Archive, or No Archiving Intended)

8.1.1. If World Data Center or Other, specify:

8.1.2. If To Be Determined, Unable to Archive or No Archiving Intended, explain:

8.2. Data storage facility prior to being sent to an archive facility (if any):
Office for Coastal Management - Charleston, SC

8.3. Approximate delay between data collection and submission to an archive facility:

8.4. How will the data be protected from accidental or malicious modification or deletion prior to receipt by the archive?
Discuss data back-up, disaster recovery/contingency planning, and off-site data storage relevant to the data collection

9. Additional Line Office or Staff Office Questions
Line and Staff Offices may extend this template by inserting additional questions in this section.